

TEXAS STATE VITA

I. ACADEMIC/PROFESSIONAL BACKGROUND

A. Name: Nathaniel Dede-Bamfo

Title: GIS Services Specialist/Lecturer

Contact:

Albert B. Alkek Library - ALK 105A

Texas State University

601 University Drive, San Marcos, TX, 78666

Office Phone: +1 (512) 245 3216

E-mail: nd1115@txstate.edu

B. Education Background

- 2017. Ph.D. (Geographic Information Science), Texas State University, San Marcos, TX.
Dissertation Title: Improving Spatial Accessibility to Agricultural Markets in the Afram Plains, Ghana.
- 2010. M.A. (Geography; Cartography and G.I.S), SUNY at Binghamton, Binghamton, NY.
Thesis Title: Assessment of the extent, rate, and socio-economic impact of agricultural land loss in the urban fringes of Accra from 2000 to 2008.
- 2006. B.A. (Geography and Resource Development), University of Ghana, Legon-Accra, Ghana
Thesis Title: Basic Education in Mfantseman District: A comparative study of Government and Private Owned Schools.

C. University Experience

Lecturer, Fall 2018 - present

Texas State University, Department of Geography

- Responsible for preparing syllabus, delivering lectures, and assigning exams, quizzes, and projects.
- Coordinating other lecture sections and supervising Graduate Instructional Assistants.

Doctoral Instructional Assistant, Fall 2010 – Fall 2013, Summer 2014

Texas State University, Department of Geography

- Prepared and assigned GIS and Remote Sensing homework/projects to students.
- Graded students' assignments, quizzes, and projects. Average laboratory size: 24.

Doctoral Teaching Assistant (Instructor of Record), Spring 2014

Texas State University, Department of Geography

- Prepared syllabus, delivered lectures, assigned exams, quizzes, and projects, and conducted office hours.
- Supervised 3 Graduate Instructional Assistants. Class size: 46

Instructor, Summer 2010

State University of New York at Binghamton, Department of Geography

- Taught Introduction to Geography; prepared syllabus, selected relevant textbooks for class, prepared lecture notes, and assigned exams and quizzes. Class size: 4.

Graduate Teaching Assistant, 2008 – 2010*State University of New York at Binghamton, Department of Geography*

- Prepared various lab assignments for different courses.
- Graded lab assignments and proctored exams. Average laboratory size: 25.

Teaching and Research Assistant, 2006 – 2007*University of Ghana Legon, Department of Geography*

- Conducted tutorials and graded assignments. Average class size: 30.
- Assisted with various assigned research projects.

D. Relevant Professional Experience**GIS Services Specialist, August 2015 to present***Texas State University, Albert B. Alkek Library*

- Manage and grow Geographical Information Systems (GIS) and data services at the University Libraries.
- Manage the geospatial lab, spaces and equipment (including development of usage policies).
- Provide GIS and data support/consultations (including finding data, geospatial analysis and visualization/mapping) to students, faculty and staff to advance research and teaching at the university.
- Plan and oversee all GIS/Data workshops and trainings (in person and online).
- Manage the University Libraries' spatial datasets and website that provides weblinks of openly accessible datasets: <http://guides.library.txstate.edu/GIS>.
- Partner with other departments to purchase new datasets and software.
- Implement marketing activities of the GIS Services unit.
- Initiate and lead research projects.
- Recruit, train and supervise the duties of graduate assistants and student workers/interns.
- Maintain knowledge of current trends in GIS and data services.

Doctoral Research Assistant, Summer 2014 to Summer 2015*Texas State University, Graduate College*

- Designed a mixed-methods approach for a research project. It involved: literature search and review, design and management of online survey, focus group discussion, data analysis, and interpretation and presentation of results.

Doctoral Research Assistant, Fall 2010, 2013; Summer, 2011, 2014*Texas State University, Department of Geography*

- Collected geotagged data (using GPS units, Web APIs and python scripting).
- Built databases for spatial and non-spatial datasets, reprojected datasets
- Managed various datasets and conducted spatial analysis and land cover classification.

Research Assistant, 2007 – 2008*University of Ghana Legon, Department of Geography (Under supervision of Prof. P.W.K Yankson)*

- Assisted with field research where I administered surveys, conducted interviews and analyzed data.

Volunteer High School Teacher, Summer 2004, Summer 2006*Mankessim Senior High Technical School, Mankessim - Ghana*

- I prepared lecture notes, conducted exams, and graded assignments. Average class size: 55.

E. Other Professional Credentials (licensure, certification, etc.)

GISP (Geographic Information Systems Professional), 2017 – present; Certification Number 99192;
GIS Certification Institute, Park Ridge, IL.

F. Research and Teaching Interests

Theoretical/Empirical: Spatial Accessibility and Mobility; Location Allocation; Agriculture; Rural Development; Land Use/Cover Change/Planning; Big Data Analysis; Sub-Saharan Africa.

Methodological: Geographic Information Science; Geocomputation; Spatial Statistics; Remote Sensing; Python Scripting; Mixed Methods.

Applications/Tools: ArcGIS (Desktop/Pro/Online/Apps); QGIS; PostGIS/PostgreSQL; GeoDa; CrimeStat; Map Windows; Erdas Imagine; IBM SPSS; R; NVivo; Microsoft Suite; UAS (DJI Phantom 4 Pro V.20; DJI P4 Multispectral etc.); Trimble Geo XH; Trimble TDC 100

II. TEACHING**A. Teaching Honors and Awards****B. Courses Taught**

<i>Course No.</i>	<i>Course Title</i>	<i>Institution</i>
Graduate level – Instructional Assistant:		
Geo 5419/7417	GIS I (Introduction to GIS)	Texas State University
Undergraduate level – Lecturer:		
Geo 2426	Fundamentals of GIS (f/f; online)	Texas State University
Geo 3426	Advanced GIS (online)	Texas State University
Undergraduate level – Instructor of Record:		
Geo 2426	Fundamentals of GIS	Texas State University
Geo 101	Introduction to Geography	Binghamton University
Undergraduate level – Instructional Assistant:		
Geo 3426	Advanced GIS	Texas State University
Geo 3416	Principles of Remote Sensing	Texas State University
Geo 2426	Fundamentals of GIS	Texas State University
Geog 421	Advanced Physical Geography	Binghamton University
Geog 336	Environmental Health: Race and Class Disparities.	Binghamton University
Geog 259	East Asia – Land and People	Binghamton University
Geog 151	World Geography	Binghamton University
Geog 120	Weather and Climate	Binghamton University
Geog 103	Multicultural Geographies of the U.S.	Binghamton University
Geog 101	Introduction to Geography	Binghamton University
Geog 103	Introduction to Mapwork	University of Ghana
Geog 102	Introduction to Human Geography	University of Ghana

C. Graduate Theses/Dissertations, Honors Theses, or Exit Committees (if supervisor, please indicate)**D. Courses Prepared and Curriculum Development**

E. Funded External Teaching Grants and Contracts

F. Submitted, but not Funded, External Teaching Grants and Contracts

G. Funded Internal Teaching Grants and Contracts

H. Submitted, but not Funded, Internal Teaching Grants and Contracts

I. Other (Workshops conducted)

<i>Workshop Title</i>	<i>Institution</i>
Basics of ArcGIS	Texas State University
Basic Statistics	Texas State University
Building ArcGIS Web Applications	Texas State University
Exploring Open-Source GIS	Texas State University
Geocoding & Spatial Statistics	Texas State University
Interpreting Aerial Images	Texas State University
Introduction to ArcGIS Pro	Texas State University
Introduction to GIS / Mapping	Texas State University
Introduction to Modeling Water Resource Features	Texas State University
Introduction to Python Scripting	Texas State University
Introduction to StoryMapping	Texas State University
Mapping made Simple - Exploring SimplyAnalytics	Texas State University
Network/Business Analysis	Texas State University
Suitability Analysis	Texas State University
Visualizing Hidden Stories Behind GIS Data	Texas State University

III. SCHOLARLY/CREATIVE WORK

A. Works in Print (including works accepted, forthcoming, in press)

1. Books (if not refereed, please indicate)

a. Scholarly Monographs:

b. Textbooks:

c. Edited Books:

d. Chapters in Books:

2016. **Dede-Bamfo, N.** "Headloading". In *Minicars, Maglevs, and Mopeds: Modern Modes of Transportation Around the World*. Edited by S. Sultana & J. Weber. Santa Barbara, CA: ABC-CLIO, 396 pp.

e. Creative Books:

2. Articles

a. Refereed Journal Articles:

2023. Clement, M., Pino, N., **Dede-Bamfo, N.**, and DeWaard, J. Submitted. “Growth, Density, and Crime: A Longitudinal County-Level Study”. *Socius: Sociological Research for a Dynamic World*.
2023. Tenebe, I. T., Julian, P. J., Emenike, P. C., **Dede-Bamfo, N.**, Maxwell, O., Sanni, S.E., Babatunde, E. O., and Alves, D. D. “Multi-dimensional surface water quality analyses in the Manawatu River Catchment, New Zealand”. *Water*. Vol. 15, Issue 16.
<https://doi.org/10.3390/w15162939>
2023. Clement, M., **Dede-Bamfo, N.**, DeWaard, J. & Seoyoun, K. “The Interdependent Forces of Local Growth: A County-Level Study, 2001-2011”. *The Sociological Quarterly*, doi:
[10.1080/00380253.2023.2191657](https://doi.org/10.1080/00380253.2023.2191657).
2023. **Dede-Bamfo, N.**, Chow, T. E. & Chikodinaka E. “Local Perspectives on Spatial Accessibility to Market in the Afram Plains, Ghana”. *International Journal of Applied Geospatial Research (IJAGR)*, Vol. 14, Issue 1. <https://doi.org/10.4018/IJAGR.322409>.
2022. Ekeanyanwu, C.V., Obisakin, I. F., Aduwenye, P. & **Dede-Bamfo, N.** Merging GIS and Machine Learning Techniques: A Paper Review. *Journal of Geoscience and Environment Protection*, Volume 10, Issue 9, 61-83. <https://doi.org/10.4236/gep.2022.109004>.
2022. Tenebe, I. T., Emenike, P. C., Babatunde, E. O., Neris, J. B., Fred-Ahmadu, O. H., **Dede-Bamfo, N.**, Egbe-Etu Etu, Ogarekpe, N. M., Emakhu, J., & Benson, N. U. “Assessing the state of rainwater for consumption in a community in dire need of clean water: Human and health risk using HERisk”. *Water Practice and Technology*, Vol. 17, No. 10.
<https://doi.org/10.2166/wpt.2022.109>.
2021. Clement, M., Pino, N., DeWaard, J., **Dede-Bamfo, N.**, York, R. & McGee, Julius. “The Lagged Environmental Consequences of Demographic and Economic Change”. *Sociological Inquiry*. Volume 92, Issue 4. <https://doi.org/10.1111/soin.12458>.
2020. Tenebe, I. T., Emenike, P. C., Nnaji, C. C., Babatunde, E. O., Ogarekpe, N. M., **Dede-Bamfo, N.** & Omole, D.O. “Bacterial characterization and quantification of rainwater harvested in a rural community in Nigeria”. *Journal of Environmental Nanotechnology, Monitoring & Management*, Vol. 14.
2016. Zhao, Chunhong, Jensen, J. Deng, X. Z. & **Dede-Bamfo, N.** Impacts of Lidar Sampling Methods and Point Spacing Density on DEM Generation. *Papers in Applied Geography* (online).
2015. Chow, T. E., **Dede-Bamfo N.**, & Dahal, K.R. Geographic Disparity of Positional Errors and Matching Rate of Residential Addresses among Geocoding Solutions. *Annals of GIS*, Vol. 22, Issue 1, pp. 29-42.
2012. Mathews, A. J., Lu, Y., Patton, M. T., **Dede-Bamfo, N.** & Chen, J. College student’s consumption, contribution, and risk awareness related to online mapping services and social media outlets: does geography and GIS knowledge matter? *Geojournal* 78(4): 627-639.

3. Conference Proceedings

a. Refereed Conference Proceedings:

2019. Kar, B., Chow, T. E., **Dede-Bamfo, N.** and Liu, X. "Using Social Media to Geo-Target Emergency Management Efforts", *Proceedings of the 5th International Conference on Computational Social Science IC²S²*.

b. Non-refereed:

4. Abstracts

5. Reports

2015. Paulson, E. J., **Dede-Bamfo, N.**, Golato, A. and Rao, S. Thinking about Graduate Student Support Through Completion. A Project Report of the Graduate College at Texas State University.

6. Book Reviews

7. Other Works in Print

B. Works not in Print

1. Papers Presented at Professional Meetings [Note: * indicates sole presenter]:

2023. "Mapping Access to Children's Hospitals in Texas" (with Shadi Maleki), *Health Scholar Showcase*, (March 2023).
2021. Participant. ESRI User Conference, online (July 2021).
2021. "What in the World is GIS?" (with *Shadi Maleki), *Texas Conference on Digital Libraries*, online (June 2021).
2021. "Spatial Analysis of Food Inspection Scores in Austin, TX – 2016-2019" (with Shadi Maleki), *Health Scholar Showcase*, online (April 2021).
2021. Participant. *GIS Day PechaKucha*, online (January 2021).
2020. Participant. *ESRI Education Summit*, online (August 2020).
2020. Participant. *ESRI User Conference*, online (July 2020).
2020. Participant. *State of the Map Conference*, Online (July 2020).
2019. "Analyzing Food Inspection Scores in Austin, TX using Spatial Statistics". *Texas GIS Forum*, Austin, TX (October 2019).
2019. "Developing an Effective GIS Services Unit at a University Library", *ESRI Education Summit/User Conference*, San Diego, CA (July 2019).
2019. Participant. *GeoRodeo*, Austin, TX (May 2019).

- 2019. “Food Under Scope: Examining Food Establishments in Austin, TX”, *American Association of Geographers Annual Meeting*, Washington D.C (April 2019).
- 2019. Participant, *Health Scholar Showcase*, Texas State University, San Marcos, TX (Feb. 2019).
- 2018. Participant. *The American Society of Criminology Annual Meeting*, Atlanta, TX (Nov. 2018).
- 2018. Participant. *Texas GIS Forum*, Austin, TX (October 2018).
- 2018. Participant. *Race, Ethnicity and Place IX Conference*, Austin, TX (October 2018).
- 2018. Participant, *ESRI User Conference*, San Diego, CA (July 2018).
- 2018. Participant, *Health and GIS Conference*, Austin, TX (May 2018).
- 2018. “Developing New Road Networks Using a Step-wise LCP Approach”, *American Association of Geographers Annual Meeting*, New Orleans, LA (April 2018).
- 2018. Participant, *Health Scholar Showcase*, Texas State University, San Marcos, TX (Feb. 2018).
- 2017. Participant. *Texas GIS Forum*, Austin, TX (October 2017).
- 2017. Participant, *ESRI User Conference*, San Diego, CA (July 2017).
- 2016. “Exploring Trends in Breast Cancer Rates Among Racial Groups in the United States” (with Ohenewaa Dede-Bamfo), *Race, Ethnicity and Place VIII Conference*, Kent, OH (September 2016).
- 2016. “Finding “Areas of Need” for new transportation development”, *ESRI User Conference*, San Diego, CA (June-July 2016).
- 2016. “A Geospatially Oriented Humanities Exhibit” (with Todd C. Peters and Jason R. Long), *Texas Conference on Digital Libraries*, (May 2016).
- 2016. “Modeling Spatial Accessibility to Agricultural Markets in the Afram Plains of Ghana”, *American Association of Geographers Annual Meeting*, San Francisco, CA (March-April 2016).
- 2016. “Modeling Spatial Accessibility to Agricultural Markets based on a multi-mode transport System”, *Texas Geography Student Research Symposium*, Texas State University (March 2016).
- 2015. Participant. *Texas GIS Forum*, Austin, TX (October 2015).
- 2015. “Exploring Post-Disaster Tweets for Vulnerability Assessment” (with T. E. Chow.), *Association of American Geographers Annual Meeting*, Chicago, IL (April 2015).
- 2015. “From Data to Development: Planning Professional Development Initiatives for Graduate Students” (with Eric Paulson, Andrea Golato, and Sandy Rao), *44th Annual Meeting of the Conference of Southern Graduate Schools*, New Orleans, LA (March 2015).

- 2014. “Women and Transport Burden: Exploring Spatial Accessibility and Gender in the Afram Plains of Ghana”. Race, Ethnicity and Place VII Conference, Fort Worth, TX (October 2014).
- 2014. “Change Detection by Multi-Season Approach”. *Applied Geography Conference*, Atlanta, GA (October 2014).
- 2013. “Modeling Potential New Roads in the Afram Plains, Ghana, *International Research Conference for Graduate Students*, Texas State University (November 2013).
- 2013. “Spatial Accessibility of Public Universities in Texas” (with Kanika Verma), *Applied Geography Conference*, Annapolis, MD (October 2013).
- 2013. “Understanding Sub-Saharan Africa: A Humanistic Geographic Overview with Emphasis on Ghana”, Texas Council for Social Studies Conference, San Antonio, TX (October 2013).
- 2013. Quality Assessment of Internet/Desktop Geocoding Services (with *T. E. Chow, and Khila Dahal), *8th International Symposium on Spatial Data Quality*, Hong Kong SAR, China (May-June 2013).
- 2013. “Finding new optimal routes in the Afram plains, Ghana using an automated multi-criteria approach”, *Texas Geography Student Research Symposium*, Texas State University (March 2013).
- 2012. “Land cover change in San Marcos, TX, 1985 – 2010”, *International Research Conference for Graduate Students*, Texas State University (November 2012).
- 2012. “Survival by all means possible: Analysis of coping strategies in peri-urban Accra, Ghana”, *Race, Ethnicity and Place VI Conference*, San Juan, Puerto Rico (October 2012).
- 2011. “Finding a new site for a toy retailer in the Austin - San Antonio corridor: A Multi-Criteria Evaluation”, *Applied Geography Conference*, Redlands, CA (October 2011).
- 2011. “Assessment of land use change & its socio-economic impact in the urban fringes of Accra from 2000 to 2008”, *American Association of Geographers Annual Meeting*, Seattle, WA (April 2011).
- 2011. “Characteristics of Geographic Bias in Address Matching” (with T.E. Chow), *American Association of Geographers Annual Meeting*, Seattle, WA (April 2011).

2. Invited Talks, Lectures, and Presentations:

- 2023. “Exploring SimplyAnalytics” - MKT 3370: Marketing Research (Dr. Taewon Suh, Department of Marketing, Texas State University). Spring.
- 2022. “Finding Library Resources for Research & Instruction” – GEO 5350/7350: Practicum in Teaching Geography (Dr. Osvaldo Muniz, Department of Geography & Environmental Studies, Texas State University). Fall.
- 2022. “Exploring Free Open-Source GIS” – GEO 4427: GIS Design and Implementation (Dr. Yihong Yuan, Department of Geography & Environmental Studies, Texas State University). Spring.

- 2021. “Finding Library Resources for Research & Instruction” – GEO 5350/7350: Practicum in Teaching Geography (Dr. Osvaldo Muniz, Department of Geography, Texas State University). Fall.
- 2021. “Building ArcGIS Web Applications” – HIST 4327: The Problem of Palestine (Dr. Elizabeth Bishop, Department of History, Texas State University). Fall.
- 2021. “Introduction to Georeferencing” – HIST 4327: The Problem of Palestine (Dr. Elizabeth Bishop, Department of History, Texas State University). Fall.
- 2021. “Exploring Free Open-Source GIS” – GEO 4427: GIS Design and Implementation (Dr. Yihong Yuan, Department of Geography, Texas State University). Spring.
- 2021. “Striving for FAIR Geospatial Data”. Co-presented with Jessica Trelogan and John Watts – Texas Digital Library (TDL) GIS Interest Group Webinar Series. March 2021.
- 2020. “Finding Library Resources for Research & Instruction”. Co-presented with Jerry Weathers – GEO 5350/7350: Practicum in Teaching Geography (Dr. Injeong Jo, Department of Geography, Texas State University). Fall.
- 2020. “Introduction to GIS”. Co-presented with Michael Shensky – Texas Digital Library (TDL) GIS Interest Group Webinar Series. September 2020.
- 2020. “Exploring Free Open-Source GIS” – GEO 4427: GIS Design and Implementation (Dr. Yihong Yuan, Department of Geography, Texas State University). Spring.
- 2019. Panelist – Diversity in GIS Panel Discussion, SWIG/GIS Day (November 2019).
- 2019. “Relevance of GIS to Marketing” - MKT 3370: Marketing Research (Dr. Taewon Suh, Department of Marketing, Texas State University). Spring.
- 2018. “Introduction to ArcGIS Online and ArcGIS Pro”. Guest speaker at Society of Geographic Information Science Meeting, Texas State University. Fall.
- 2018. “Exploring Free Open-Source GIS” – GEO 4427: GIS Design and Implementation (Dr. Yihong Yuan, Department of Geography, Texas State University). Fall.
- 2018. “Introduction to StoryMapping” – HIST 5375N: Digital History (Dr. Louie Valencia, Department of History, Texas State University). Fall.
- 2018. “Finding Library Resources for Research” – GEO 2426: Fundamentals of GIS (Ms. Shadi Maleki, Department of Geography, Texas State University). Spring.
- 2018. “Finding Library Resources for Research”. Co presented with Rory Elliott – GEO 2426: Fundamentals of GIS (Ms. Saeideh Gharehchahi, Department of Geography, Texas State University). Spring.
- 2018. “Exploring Free Open-Source GIS” – GEO 4427: GIS Design and Implementation (Dr. Yihong Yuan, Department of Geography, Texas State University). Spring.

- 2018. "Life after school – Experience as a GIS Specialist/Professional". Guest speaker at Gamma Theta Upsilon Meeting, Texas State University. Fall.
- 2017. "Finding Library Resources for Research". Co presented with Rory Elliott – GEO 2426: Fundamentals of GIS (Mogahid Hussein, Department of Geography, Texas State University). Fall.
- 2017. "GIS Education and Professional Development". Panelist – Texas GIS Forum Panel Discussion (Oct. 2017).
- 2017. "Exploring Free Open-Source GIS" – GEO 4427: GIS Design and Implementation (Dr. Yihong Yuan, Department of Geography, Texas State University). Fall.
- 2017. "Big Data Analytics" - GEO 7364: Geocomputation (Dr. Chow, Department of Geography, Texas State University). Spring.
- 2017. "Exploring Free Open-Source GIS" – GEO 4427: GIS Design and Implementation (Dr. Yihong Yuan, Department of Geography, Texas State University). Spring.
- 2017. "Conducting Geographic Research: The Dissertation Experience" – GEO 7300: Advanced Research Design (Dr. Hagelman, III, Department of Geography, Texas State University). Spring.
- 2016. "Africa: Challenges, Successes & Prospects", Exploring the African Landscape Workshop, San Marcos, TX (October 2016).
- 2016. "What is GIS?" - Guest speaker at 2016 GIS Day Celebration at Texas State University. Fall.
- 2016. "Exploring Free Open-Source GIS" - Guest speaker at Society of Geographic Information Systems (SOGIS) Meeting, Texas State University. Fall.
- 2016. "Retail Store Area Measurement" - FM 2334: Introduction to Retail Technologies (Dr. Vertica Bhardwaj, Department of Fashion Merchandising, Texas State University). Fall.
- 2016. "Discovering GIS Services at Alkek Library". Co-presented with Rory Elliott - Guest speaker at Geography Graduate Forum, Texas State University meeting. Fall.
- 2016. "Relevance of GIS to Marketing" - MKT 3370: Marketing Research (Dr. Taewon Suh, Department of Marketing, Texas State University). Fall.
- 2016. "Relevance of GIS to Marketing" (Advanced) - MKT 5330: International Marketing (Dr. Taewon Suh, Department of Marketing, Texas State University). Fall
- 2016. "Relevance of GIS to Marketing" - MKT 3370: Marketing Research (Dr. Taewon Suh, Department of Marketing, Texas State University). Spring.
- 2016. "Retail Store Area Measurement" - FM 2334: Introduction to Retail Technologies (Dr. Vertica Bhardwaj, Department of Fashion Merchandising, Texas State University). Spring.

- 2014. “The Asante Empire” – Anth 5322: Peoples and Cultures of Africa (Dr. Augustine Agwuele, Department of Anthropology, Texas State University). Fall.
- 2014. “Africa below the Sahara with emphasis on Ghana” – Hon 3397C: Geography of Africa (Ms. Linda Hammon, Department of Geography, Texas State University). Fall.
- 2013. “Sub-Saharan Africa: The Land, Culture and Economy with emphasis on Ghana” – Geo 4396: Studies in Geography (Ms. Linda Hammon, Department of Geography, Texas State Univ.). Spring.
- 2013. “What is Buffering and Dissolve”. GEO 2426: Fundamentals of GIS (Ms. Yan Lin, Department of Geography, Texas State University). Spring.
- 2012. “Sub-Saharan Africa with emphasis on Ghana” - Geo 1310: World Regional Geography (Mr. Michael Scholz, Department of Geography, Texas State University). Spring.
- 2011. “Sub-Saharan Africa with emphasis on Ghana” - Geo 1310: World Regional Geography (Mr. Michael Scholz, Department of Geography, Texas State University). Fall.
- 2011. “Tell us about your home country – Ghana”. Guest speaker at Supporting Women in Geography meeting, Texas State University. Spring.
- 2010. “Projections and Coordinate Systems” - Geo 2426: Fundamentals of GIS (Dr. Niem Huynh, Department of Geography, Texas State University). Fall.
- 2010. “Sub-Saharan Africa: Past, Present and Future” - Geo 1310: World Regional Geography (Dr. Niem Huynh, Department of Geography, Texas State University). Fall.

3. Consultancies:

4. Workshops Attended:

- 2022. “Unity XR Development” - Alkek One Micro-Credential Program, University Libraries, Texas State University.
- 2022. “Design to Fabrication” - Alkek One Micro-Credential Program, University Libraries, Texas State University.
- 2022. “Blender 3D Bootcamp” - Alkek One Micro-Credential Program, University Libraries, Texas State University.
- 2021. “Cartography – Learn How to Map Like a Pro”, Esri MOOC (Massive Open Online Courses) (Feb-March 2021).
- 2021. “Hands-On Tableau Desktop: Mapping the 2016 Presidential Election”, Texas Digital Library (TDL) GIS Interest Group Webinar Series – January 2021).
- 2018. “Author's Rights, Copyright, & Plagiarism” Texas State Alkek Library Scholarly Communication Workshop Series, (October 2018).

- 2018. “Free Esri University Faculty BYOD (Bring Your Own Device) Workshop”, Esri – San Antonio, TX Workshop (June 2018).
- 2018. “Getting Word Out: Marketing at Texas”, Texas State University Professional Development Training, (February 2018).
- 2018. “Reasonable Suspicion”, Texas State University Online Course, (February 2018).
- 2018. “Reducing Bias and Uncertainty in Mapping Human Geography Data”, World-Wide Human Geography Data Working Group Webinar (January 2018).
- 2017. “Introduction to GIS App Development”, Texas State University Faculty/Staff Workshops (November 2017).
- 2017. “Krav Maga Self Defense Training”, Texas State University Professional Development Training, (November 2017).
- 2017. “Health & Wellness Lunch & Learn Series”, Texas State University Professional Development Training, (November 2017).
- 2017. “Makerspace / Virtual Reality Brainstorming”, Texas State University Faculty/Staff Workshops (August 2017).
- 2017. “Ethics and Compliance”, Texas State University Online Course, (August 2017).
- 2017. “Equal Employment Opportunity & Title IX”, Texas State University Online Course, (August 2015).
- 2017. “Africa: Challenges, Successes & Prospects”, Geography of Africa Workshop, San Marcos, TX (April 2017).
- 2017. “Civilian Response to Active Shoot Events”, Texas State University Professional Development Training, (February 2017).
- 2016. “How to Teach an Online Course and Still Have a Life”, Texas State University Faculty/Staff Workshops (October 2016).
- 2016. “Africa: Challenges, Successes & Prospects”, Exploring the African Landscape Workshop, San Marcos, TX (October 2016) *.
- 2016. “Securing Confidential Data”, Texas State University Online Course, (August 2016).
- 2016. “Take Control of Social Media for your Career”, Texas State University Grad College Shop Talk (August 2016).
- 2016. “Getting Started with Microsoft Access”, Texas State University Professional Development Training, (February 2016).

2016. “Transforming Good Ideas into Funded Research: Strategies for New Faculty and New Grant Seekers”, Texas State University Faculty/Staff Workshops (February 2016).
2015. “Gato III: Using the Content Management System – Additional Features”, Texas State University Faculty/Staff Workshops (September 2015).
2015. “Gato II: Using the Content Management System”, Texas State University Faculty/Staff Workshops (September 2015).
2015. “Gato I: Fundamentals Training”, Texas State University Faculty/Staff Workshops (August 2015).
2015. “Ethics and Compliance”, Texas State University Online Course, (September 2015).
2015. “Sub-Saharan Africa: Challenges & Successes” (with Owusu Ansah Boakye), Bridging the Human and Physical Experiences of Africa Workshop, San Marcos, TX (September 2015) *.
2015. “Hybrid Course Teaching Experiences”, Texas State University Faculty/Staff Workshops (August 2015).
2014. “WP Personal Websites Faculty and Staff Training”, Texas State University Faculty/Staff Workshops (January 2014).
2013. “West Africa Coastal Issues”, World-Wide Human Geography Data Working Group Webinar (August 2013).

5. Other Works not in Print:

a. Works “submitted” or “under review”:

b. Works “in progress”:

Dede-Bamfo, N. and Chow, T. E. Modeling Spatial Accessibility based on a Multi-Mode Transport System. Under preparation for submission to *Applied Geography*.

Dede-Bamfo, N., Chow, T. E. and Zhan, B. Modeling New Road Networks using a “Step-wise” Least Cost Path Approach. Under preparation for submission to *International Journal of Geographical Information Science*.

Dede-Bamfo, N., Chow, T. E., and Blanchard-Boehm, D. Women and Transport Burden: Exploring Spatial Accessibility and Gender in the Afram Plains of Ghana”. Under preparation for submission to *Community Development*.

c. Research projects:

2014. The Graduate Experience at Texas State: Factors Promoting Student Retention and Degree Completion. **Research Assistant** (June 2014 – August 2015).

2014. Exploring Post-Disaster Tweets for Damage Assessment. **Research Assistant** (June-August 2014).

- 2011. Urban Vegetation for Biogenic Emissions – A TCEQ funded project. **Research Assistant** (May-August 2011).
- 2009. Market assessment of a potential site for grocery store location in the North Side of the City of Binghamton, New York. **Project partner** (April 2009).
- 2008. A Study of Livelihoods, Poverty and Coping Strategies of Households in the Urban Fringe Villages/Communities of Accra. **Research Assistant**. (January-August 2008).
- 2007. Rural-Urban Dynamics in a Globalizing World: Changing Livelihoods and Settlement Patterns in Frontier Regions of Ghana. **Research Assistant**. (August 2006 - July 2007).

C. Grants and Contracts

1. Funded External Grants and Contracts:

- 2012. West African Research Center (WARC) Travel Grant 2012/2013 - \$3,000
(Funding is provided by the Bureau of Educational and Cultural Affairs of the US Department of State through a grant from the Council of American Overseas Research Centers).

2. Submitted, but not Funded, External Grants and Contracts:

- 2023. Veteran's Legacy Grant Program. *Computer Vision in Veterans Cemeteries*. (CV / VC) – \$430,000 - Department of Veterans Affairs.

- 2018. Undergraduate Education Grant - \$350,000 - Keck Foundation

3. Funded Internal Grants and Contracts:

- 2015. Student Government (Texas State University) Rising Scholarly Travel Activity and Research (S.T.A.R.) Grant - \$500.

4. Submitted, but not Funded, Internal Grants and Contracts:

D. Fellowships, Awards, Honors

- 2014. Winner (GIScience), 3MT Competition, Department of Geography, Texas State University.
- 2012-15. Recipient, Associated Student Government Graduate Scholarship.
- 2012-14. Recipient, Texas State Graduate College Scholarship.
- 2013. Recipient, Sandra E. Estaville Dissertation Research Scholarship.
- 2013. Candidate, Outstanding Doctoral Students at Texas State University (for President's Holiday Card).
- 2012. Recipient, Cengage-Brooks/Cole Outstanding Nontraditional Graduate Award.
- 2010-14. Recipient, Doctoral Assistantship, Dept. of Geography, Texas State Univ., TX, USA.

2008-10. Recipient, Tuition Scholarship, Dept. of Geography, SUNY at Binghamton, NY, USA.

IV. SERVICE

A. Institutional

1. University:

2015 - present Co-organizer, GIS Day Celebration, Texas State University.

2019. Panel Discussion Moderator, *"GIS & the Modern Academic. Exploring the Influence of GIS in contemporary research and teaching"*, 2019 GIS Day, Texas State University (Nov. 2019).

2017. Panel Discussion Moderator, *"The Relevance of GIS to my discipline/field"*, 2017 GIS Day, Texas State University (Nov. 2017).

2014. Panel Session Moderator, International Research Conference for Graduate Students, Texas State University (Nov. 2014).

2. Department/School:

2016-present Member, Search Committees (varied), Albert B. Alkek Library, Texas State Univ.

2019-21. Member, Staff Awards Committee, University Libraries, Texas State University.

2018-21. Member, Scholarly Communication Committee, University Libraries, Texas State University.

2019-20. Advisor, The Redeemed Christian Fellowship, Texas State University.

2017-20. Advisor, The Mix Students Ministry, Texas State University.

2016-20. Member, Scholarship Review Committee, Albert B. Alkek Library, Texas State Univ.

2010-14. Volunteer Tutor for Gamma Theta Upsilon, Texas State University.

2012-13. PhD Faculty Representative, Geography Grad Forum, Texas State University.

2013. Volunteer at Grosvenor Distinguished Lecture Series, Texas State Univ., San Marcos.

2013. Volunteer for Dept. of Geography at Bobcat Day, Texas State Univ., San Marcos.

2009-10. Member. Awards Committee, Geography Department, SUNY at Binghamton.

2009-10. Vice President, Geography Graduate Students' Organization, SUNY at Binghamton.

B. Professional

2018 - present Reviewer, International Journal of Applied Geospatial Research (IJAGR).

- 2017 - present Reviewer, Papers in Applied Geography.
2021. Member, 2021 Texas Conference on Digital Libraries - Planning Committee, Texas Digital Library.
- 2014-19. Member, Editorial Board, Ghana Journal of Geography.
2014. Co-Editor. Texas State Geographic.
2014. Book Reviewer, Macmillan Higher Education.
- 2013-14. Reviewer, Ghana Journal of Geography.
2013. Reviewer, Graduate Students' Affinity Group (GSAG)-Association of American Geographers (AAG), (Paper and Research Award).

C. Community

- 2019-present Bible Study Leader, Promiseland Church, San Marcos, TX.
- 2018-present Children's Church Teacher, Promiseland Church, San Marcos, TX.
2016. Bible Study Leader, Promiseland Church, San Marcos, TX.
- 2013-15. Executive committee member, Chi Alpha Christian Fellowship, Texas State Univ.
- 2007-08. Chairman, Properties Department, Living Springs Assemblies of God, Legon-Ghana.
2007. Secretary, 5th Anniversary Planning Committee, Living Springs Assemblies of God, Legon, Ghana.
- 2003-07. Volunteer for Summer Evangelism / Health / Education Mission Outreach. Assemblies of God Campus Ministry, Univ. of Ghana, Legon.
- 2005-06. General Secretary, Mankessim Development Association, Univ. of Ghana Branch
- 2005-06. Member. Curatorial/Welfare Committee, Commonwealth Hall, Univ. of Ghana, Legon.
- 2005-06. Member. Hall Week Planning Committee, Commonwealth Hall, University of Ghana.
- 2004-06. Hall President - Commonwealth Hall, Assemblies of God Campus Ministry, University of Ghana.
- 2001-08. Outpost Commander, Royal Rangers Ministry, Mankessim – Ghana.

D. Organizations

1. Honorary/Other Membership:

- 2010-17. Gamma Theta Upsilon (International Geography Honor Society).

- 2010-17. Geography Graduate Forum, Texas State University, San Marcos.
- 2010-17. Society of Geographic Information Science, Texas State University, San Marcos.
- 2012-16. American Society of Photogrammetry and Remote Sensing (ASPRS), Texas State.
- 2008-10. Geography Graduate Students' Organization, SUNY at Binghamton.

2. Professional Membership:

- 2020-present Texas Digital Library GIS Interest Group.
- 2010-present Association of American Geographers.
- 2012-present West African Research Association.
- 2018-20. Association of American Geographers (AAG) Africa Specialty Group.
- 2014-20. AAG Geographies of Food and Agriculture Specialty Group.
- 2014-20. AAG Transportation Geography Specialty Group.
- 2014-20. AAG Geographic Information Science and Systems Specialty Group.
- 2014-18. AAG Spatial Analysis & Modeling Specialty Group.
- 2014-18. AAG Business Geography Specialty Group.
- 2014-18. AAG Development Geographies Specialty Group.
- 2017-18. South Central Arc User Group (SCAUG).
- 2017-18. Urban and Regional Information Systems Association (URISA).
- 2017-18. Geospatial Information & Technology Association (GITA).
- 2014-17. AAG Graduate Student Affinity Group.

E. Service Honors and Awards

- 2020. Recipient, 5 Year Longevity Recognition, Albert B. Alkek Library, Texas State Univ.
- 2019. Recipient, Outstanding Team Award, Albert B. Alkek Library, Texas State Univ.
- 2019. Recipient, Society of Geographic Information Science Achievement in GIS Award.
- 2013. Recipient, The Gamma Theta Upsilon (GTU) Outstanding Service Award.
- 2012. Recipient, Society of Geographic Information Science Achievement in GIS Award.

F. Service Grants and Contracts

1. Funded External Service Grants and Contracts:
2. Submitted, but not Funded, External Service Grants and Contracts:
3. Funded Internal Service Grants and Contracts:
4. Submitted, but not Funded, Internal Service Grants and Contracts: